

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P291540

Luminaire Tested: **14GR-LD5-20-FGW080-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-FGW080-UNV-L83050-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1671.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

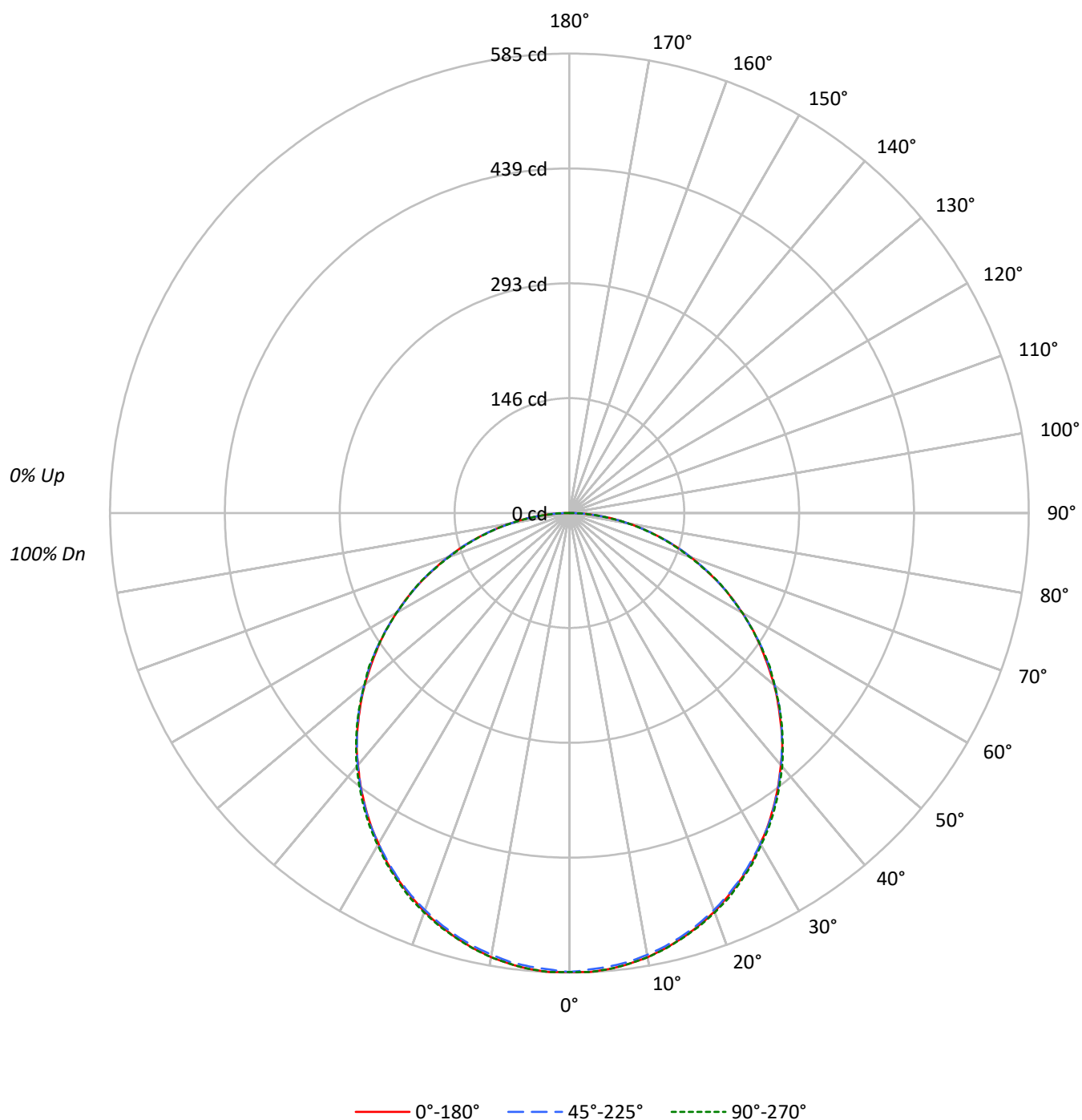
Input Watts (W): 16.275
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	106	101	97	93		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	71	64	87	77	70	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	40	68	55	47	40		53	46	40		52	45	40		50	44	39
7	64	51	42	36	63	50	42	36		48	41	35		47	40	35		46	39	35
8	60	46	38	32	58	46	37	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	28		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1573	1573	1573
5°	1574	1566	1574
10°	1569	1560	1569
15°	1558	1552	1560
20°	1546	1540	1550
25°	1531	1527	1535
30°	1510	1510	1517
35°	1491	1493	1500
40°	1471	1473	1481
45°	1450	1453	1456
50°	1425	1429	1427
55°	1396	1403	1401
60°	1369	1369	1369
65°	1337	1337	1344
70°	1294	1294	1282
75°	1250	1245	1238
80°	1192	1184	1176
85°	1121	1105	1071



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	3.3
10°-20°	157.7	9.4
20°-30°	237.7	14.2
30°-40°	284.8	17.0
40°-50°	294.5	17.6
50°-60°	267.0	16.0
60°-70°	207.5	12.4
70°-80°	126.8	7.6
80°-90°	39.7	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	450.6	27.0
0°-40°	735.5	44.0
0°-60°	1297.0	77.6
0°-90°	1671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1671.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	584	584	584	584	584	
5°	583	582	580	582	583	55
15°	559	559	557	560	560	158
25°	516	516	514	518	517	237
35°	454	455	455	457	457	284
45°	381	381	382	382	382	294
55°	298	299	299	299	299	266
65°	210	210	210	209	211	207
75°	120	120	120	119	119	127
85°	36	35	36	35	35	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	584.4	584.4	584.4	584.4	584.4
2.5°	584.9	584.4	581.7	584.4	584.9
5°	582.8	582.2	579.6	582.2	582.8
7.5°	579.0	579.0	576.4	579.0	579.0
10°	574.2	573.7	571.0	573.7	574.2
12.5°	567.3	567.3	564.6	567.3	567.8
15°	559.3	559.3	557.1	559.8	559.8
17.5°	550.2	550.7	548.1	551.3	551.3
20°	540.0	539.5	537.9	540.6	541.1
22.5°	527.8	528.3	526.7	529.9	530.4
25°	515.5	515.5	514.4	517.6	517.1
27.5°	502.1	502.1	500.5	503.2	503.7
30°	486.1	486.6	486.1	488.8	488.2
32.5°	471.1	471.7	471.7	472.7	473.3
35°	454.0	454.6	454.6	456.7	456.7
37.5°	437.0	437.0	437.5	439.1	439.1
40°	418.8	419.3	419.3	420.9	421.5
42.5°	401.2	400.1	400.6	402.2	402.2
45°	380.9	381.4	381.9	382.5	382.5
47.5°	360.6	361.6	362.2	362.7	362.2
50°	340.3	341.3	341.3	340.8	340.8
52.5°	318.4	321.0	320.5	320.5	321.6
55°	297.5	298.6	299.1	299.1	298.6
57.5°	276.7	277.8	276.7	277.2	276.2
60°	254.3	254.8	254.3	254.3	254.3
62.5°	232.4	232.9	231.8	231.8	231.8
65°	209.9	209.9	209.9	208.9	211.0
67.5°	186.4	187.5	187.5	188.0	185.9
70°	164.5	165.1	164.5	164.0	162.9
72.5°	142.6	143.2	143.7	141.6	141.0
75°	120.2	120.2	119.7	119.1	119.1
77.5°	98.3	98.3	98.3	97.2	97.2
80°	76.9	77.5	76.4	76.4	75.9
82.5°	56.1	56.1	56.1	55.6	54.5
85°	36.3	35.3	35.8	34.7	34.7
87.5°	16.6	16.6	16.6	15.5	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)